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[Bent Bruun Kristensen, Ole Lehmann Madsen, Birger Møller-Pedersen](#)  
 June 2007 **HOPL III: Proceedings of the third ACM SIGPLAN conference**  
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This paper tells the story of the development of BETA: a programming I instead of one abstraction mechanism for each kind of program element paper explains ...

**Keywords:** history of programming, object-oriented analysis, object-oriented programming, programming languages

- 2** [Rapid file system development using ptrace](#)  
[Richard P. Spillane, Charles P. Wright, Gopalan Sivathanu, Erez Zadok](#)  
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Developing kernel-level file systems is a difficult task that requires a sig systems, it is desirable to develop a prototype before investing the time have ...

**Keywords:** monitors, rapid prototyping

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[Philipp Bachmann](#)  
 October 2006 **PLoP '06: Proceedings of the 2006 conference on Pattern lar**  
**Publisher:** ACM  
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The classic UNIX principle to write code that generates code instead of v experiencing a revival. Much research was done, the techniques are bet

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refined. ...

**Keywords:** design pattern, generative programming, generic program product lines, static polymorphism, template, template specialization

#### 4 [Portably solving file races with hardness amplification](#)

 [Dan Tsafir, Tomer Hertz, David Wagner, Dilma Da Silva](#)  
November 2008 **Transactions on Storage (TOS)** , Volume 4 Issue 3

**Publisher:** ACM  [Request Permissions](#)

Full text available:  [Pdf](#) (985.12 KB) Additional Information: [full citation](#), [at](#)

**Bibliometrics:** Downloads (6 Weeks): 3, Downloads (12 Months): 55, Download

The file-system API of contemporary systems makes programs vulnerable to race conditions. Existing solutions either help users to detect these problems or prevent the ...

**Keywords:** Race conditions, TOCTTOU, time-of-check-to-time-of-use

#### 5 [Evolving a language in and for the real world: C++ 1991-2006](#)

 [Bjarne Stroustrup](#)  
June 2007 **HOPL III: Proceedings of the third ACM SIGPLAN conference**

**Publisher:** ACM  [Request Permissions](#)


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This paper outlines the history of the C++ programming language from through the 1998 ISO standard, to the later stages of the C++0x revision. It discusses the ideals, constraints, ...

**Keywords:** C++, ISO, STL, evolution, history, language use, libraries, language, standardization

#### 6 [Nu: a dynamic aspect-oriented intermediate language model and virtual machine](#)

 [Robert Dyer, Hridesh Rajan](#)  
March 2008 **AOSD '08: Proceedings of the 7th international conference on**

**Publisher:** ACM  [Request Permissions](#)


Full text available:  [Pdf](#) (562.12 KB) Additional Information: [full citation](#), [at](#)

**Bibliometrics:** Downloads (6 Weeks): 4, Downloads (12 Months): 57, Download

A variety of dynamic aspect-oriented language constructs are proposed and their use cases. Such constructs demonstrate the need to dynamically adapt the compilation level. ...

**Keywords:** Nu, aspect-oriented intermediate languages, aspect-oriented

#### 7 [A study of devirtualization techniques for a Java Just-In-Time compiler](#)

 [Kazuaki Ishizaki, Motohiro Kawahito, Toshiaki Yasue, Hideaki Komatsu, Toshio](#)  
 October 2000 **OOPSLA '00**: Proceedings of the 15th ACM SIGPLAN conference  
 languages, and applications

**Publisher:** ACM  [Request Permissions](#)

Full text available:  Pdf (225.89 KB)

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Many devirtualization techniques have been proposed to reduce the run  
 object-oriented languages, however, most of them are less effective or  
 manner. This ...

Also published in:

October 2000 **SIGPLAN Notices** Volume 35 Issue 10

## 8 [Dynamic software updates: a VM-centric approach](#)

 [Suriya Subramanian, Michael Hicks, Kathryn S. McKinley](#)  
 June 2009 **PLDI '09**: Proceedings of the 2009 ACM SIGPLAN conference  
 implementation

**Publisher:** ACM  [Request Permissions](#)

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Additional Information: [full citation](#), [at](#)

**Bibliometrics:** Downloads (6 Weeks): 59, Downloads (12 Months): 365, Downloads

Software evolves to fix bugs and add features. Stopping and restarting  
 often costly. Dynamic software updating (DSU) addresses this problem  
 existing DSU systems ...

**Keywords:** dynamic software updating, garbage collection, virtual machine


Also published in:

May 2009 **SIGPLAN Notices** Volume 44 Issue 6

## 9 [A machine-checked model for a Java-like language, virtual machine,](#)

 [Gerwin Klein, Tobias Nipkow](#)  
 July 2006 **Transactions on Programming Languages and Systems**

**Publisher:** ACM  [Request Permissions](#)

Full text available:  Pdf (2.68 MB)

Additional Information: [full citation](#), [at](#)

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We introduce Jinja, a Java-like programming language with a formal  
 Java language architecture. Jinja is a compromise between the realism  
 its formal ...

**Keywords:** Java, operational semantics, theorem proving


## 10 [PyF95++: a templating capability for the Fortran 95/2003 language](#)

 [David Car, Michael List](#)  
 April 2010 **SIGPLAN Fortran Forum**, Volume 29 Issue 1

**Publisher:** ACM

Full text available:


Additional Information:

 Pdf (105.51 KB)

[full citation, reference](#)

**Bibliometrics:** Downloads (6 Weeks): 26, Downloads (12 Months): 56, Download

# 11 Multitasking without compromise: a virtual machine evolution

 [Grzegorz Czajkowski, Laurent Daynés](#)

November 2001 **OOPSLA '01**: Proceedings of the 16th ACM SIGPLAN conference on programming languages, and applications

**Publisher:** ACM  [Request Permissions](#)

Full text available:  Pdf (220.97 KB)

[Additional Information: full citation, at](#)

**Bibliometrics:** Downloads (6 Weeks): 6, Downloads (12 Months): 64, Download


The multitasking virtual machine (called from now on simply MVM) is a  
enables safe, secure, and scalable multitasking. Safety is achieved by si  
Resource control ...

**Keywords:** Java virtual machine, application isolation, native code execu

Also published in:


November 2001 **SIGPLAN Notices** Volume 36 Issue 11

# 12 SlimVM: a small footprint Java virtual machine for connected embed

 [Christoph Kerschbaumer, Gregor Wagner, Christian Wimmer, Andreas Gal,](#)

August 2009 **PPPJ '09**: Proceedings of the 7th International Conference o

**Publisher:** ACM  [Request Permissions](#)

Full text available:  Pdf (987.86 KB)


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**Bibliometrics:** Downloads (6 Weeks): 3, Downloads (12 Months): 74, Download

The usage of cellular phones, PDAs, and other mobile devices has increa  
targeted to be one of the most popular execution environments on such  
inherently limited ...



**Keywords:** Java virtual machine, code-size reduction, connected embe  
optimization

# 13 Computing curricula 2001

 [CORPORATE The Joint Task Force on Computing Curricula](#)


September 2001 **Journal on Educational Resources in Computing (JER**

**Publisher:** ACM  [Request Permissions](#)

Full text available:  Html (2.78 KB),  Pdf (613.63 KB) [Additional Information: full citatic](#)

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# 14 A region-based compilation technique for dynamic compilers

 [Toshio Suganuma, Toshiaki Yasue, Toshio Nakatani](#)

January 2006 **Transactions on Programming Languages and Systems**

**Publisher:** ACM  [Request Permissions](#)

Full text available:  Pdf (977.63 KB)


[Additional Information: full citation, at](#)

**Bibliometrics:** Downloads (6 Weeks): 17, Downloads (12 Months): 117, Downl

Method inlining and data flow analysis are two major optimization comp they often suffer from the existence of rarely or never executed code cc lies in the ...

**Keywords:** JIT compiler, Region-based compilation, dynamic compilati

#### 15 [Formalizing the safety of Java, the Java virtual machine, and Java c](#)

 [Pieter H. Hartel](#), [Luc Moreau](#)

December 2001 **Computing Surveys (CSUR)** , Volume 33 Issue 4

**Publisher:** ACM  [Request Permissions](#)

Full text available:  [Pdf](#) (442.86 KB)


Additional Information: [full citation](#), [at](#)

**Bibliometrics:** Downloads (6 Weeks): 56, Downloads (12 Months): 453, Downl

We review the existing literature on Java safety, emphasizing formal ap footprint devices such as smartcards. The conclusion is that although a effort is ...


**Keywords:** Common criteria, programming

#### 16 [A join point for loops in AspectJ](#)

 [Bruno Harbulot](#), [John R. Gurd](#)

March 2006 **AOSD '06: Proceedings of the 5th international conference o**

**Publisher:** ACM  [Request Permissions](#)

Full text available:  [Pdf](#) (415.91 KB)


Additional Information: [full citation](#), [at](#)

**Bibliometrics:** Downloads (6 Weeks): 9, Downloads (12 Months): 74, Downloa

The current AspectJ join points represent locations in the code that are the "things that happen" happen at the interfaces. In particular, loops a parallelisation. ...


**Keywords:** AspectJ, loop join point

#### 17 [Measuring the dynamic behaviour of AspectJ programs](#)

 [Bruno Dufour](#), [Christopher Goard](#), [Laurie Hendren](#), [Oege de Moor](#), [Ganesh](#)

October 2004 **OOPSLA '04: Proceedings of the 19th annual ACM SIGPLAN systems, languages, and applications**

**Publisher:** ACM  [Request Permissions](#)

Full text available:  [Pdf](#) (226.86 KB)

Additional Information: [full citation](#), [at](#)

**Bibliometrics:** Downloads (6 Weeks): 8, Downloads (12 Months): 89, Downloa


This paper proposes and implements a rigorous method for studying the of this methodology several new metrics specific to AspectJ programs a metrics are presented. ...

**Keywords:** AspectJ, aspect-oriented programming, dynamic metrics, je

Also published in:

October 2004 **SIGPLAN Notices** Volume 39 Issue 10

### 18 [The potential of speculative class-loading](#)

 [Dmitrijs Zaparanuks, Milian Jovic, Matthias Hauswirth](#)

September 2007 **PPPJ '07**: Proceedings of the 5th international symposium

**Publisher:** ACM

Full text available:  [Pdf](#) (339.76 KB)


Additional Information: [full citation](#), [at](#)

**Bibliometrics:** Downloads (6 Weeks): 3, Downloads (12 Months): 12, Download

Platforms such as Java provide many software engineering benefits. However, they have a significant runtime overhead. In this paper we study the potential for high-speed speculative execution ...

**Keywords:** Markov predictor, speculative class-loading

### 19 [Towards a formal model for security policies specification and validation](#)

 [Giorgio Zanin, Luigi Vincenzo Mancini](#)

June 2004 **SACMAT '04**: Proceedings of the ninth ACM symposium on Foundations of software

**Publisher:** ACM  [Request Permissions](#)

Full text available:  [Pdf](#) (257.36 KB)

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**Bibliometrics:** Downloads (6 Weeks): 7, Downloads (12 Months): 73, Download

This paper presents a formal model, called SELAC, for analyzing an arbitrary system. A security policy for SELinux is complex and large: it is made by a set of control rules ...

**Keywords:** configuration, formal model, security enhanced linux

### 20 [Extending Dynamic Constraint Detection with Polymorphic Analysis](#)

[Nadya Kuzmina, Ruben Gamboa](#)

May 2007 **WODA '07**: Proceedings of the 5th International Workshop on Dynamic

**Publisher:** IEEE Computer Society

Full text available:  [Pdf](#) (562.70 KB)

Additional Information: [full citation](#), [at](#)

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The general technique for dynamically detecting likely invariants, as implemented by Daikon, has support for polymorphism. Daikon examines only the declared type of a variable at the runtime ...

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